



WHEELABRATOR NORTH ANDOVER A WIN-WASTE INNOVATIONS COMPANY DRAFT - COMPLIANCE SUMMARY REPORT



Date 10/4/25

Plant Wheelabrator North Andover

NOTE: Emission & Process results may change after Startup, Shutdown, Malfunction data validation

Unit Unit 1
Source Outlet

Date	Hour	On-Line Minutes	O2		NOx		SO2					CO				Carbon Feed		FF Temp (deg F)		Steam KLbs/Hr		
			Out Vol % Dry	Status	Outlet ppm 7%O2	Status	Outlet ppm 7%O2	Status	Inlet ppm 7%O2	Status	Removal	Status	Outlet ppm 7%O2	Status	4 Hr Block	Status	Lbs/Hr Avg.	8 Hr Block	1 Hr Avg.	4 Hr Block	1 Hr Avg.	4 Hr Block
10/4/2025	0	60	10.5		142		0		34		100		0				13		317		168.5	
10/4/2025	1	60	10.8		138		0		31		100		0				13		317		168.4	
10/4/2025	2	60	10.8		141		0		30		100		0				13		317		169.7	
10/4/2025	3	60	10.8		140		0		27		100		0	0			13		317	317	168.1	168.7
10/4/2025	4	60	10.6		144		0		24		100		0				13		317		167.5	
10/4/2025	5	60	10.7		139		0		32		100		0				13		317		166.8	
10/4/2025	6	60	10.5		140		0		37		100		1				13		317		168.5	
10/4/2025	7	60	10.7		143		0		38		100		1	0			13	13	318	317	168.9	167.9
10/4/2025	8	60	10.8		139		0		40		100		1				13		318		168.2	
10/4/2025	9	60	10.8		142		0		32		100		1				13		318		168.8	
10/4/2025	10	60	10.7		140		0		34		100		0				13		318		169.7	
10/4/2025	11	60	10.9		141		0		36		100		0	1			13		317	317	168.4	168.8
10/4/2025	12	60	10.8		143		0		36		100		1				13		317		168.3	
10/4/2025	13	60	10.7		140		0		34		100		1				13		318		168.0	
10/4/2025	14	60	10.7		141		0		27		100		0				13		317		167.7	
10/4/2025	15	60	10.6		139		0		27		100		0	0			13	13	318	317	167.2	167.8
10/4/2025	16	60	10.6		143		0		29		100		1				13		317		167.6	
10/4/2025	17	60	10.5		139		0		36		100		0				13		317		168.0	
10/4/2025	18	60	10.6		143		0		41		100		1				13		317		169.1	
10/4/2025	19	60	10.8		140		0		38		100		0	0			13		318	317	168.0	168.2
10/4/2025	20	60	10.9		139		0		35		100		0				13		317		167.2	
10/4/2025	21	60	10.7		144		0		35		100		0				13		318		167.5	
10/4/2025	22	60	10.7		139		0		43		100		0				13		317		167.5	
10/4/2025	23	60	10.7		143		0		51		100		0	0			13	13	317	317	167.5	167.4

Average: Geometric Mean Average:	141	0	OR	100	see above	see above	see above	see above
Limit:	≤ 150 24-HR Block Avg.	≤ 29 24-HR Geometric Mean		≥ 80% Removal Efficiency	≤ 69 ppmc 4-HR Block Average	≥ 12 lb/hr 8-HR. Block Average	≤ 345 °F 4-HR Block Average	≤ 173 klb/hr 4-HR Block Average

Status Flags

- I - Invalid
- B - Bad
- C - Calibration
- M - Maintenance
- F - Offline
- P - Purge
- T - Out of Control
- E - Excluded
- ^ - Startup
- * - Shutdown



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Date 10/4/25

Plant Wheelabrator North Andover

NOTE: Emission & Process results may change after Startup, Shutdown, Malfunction data validation

Unit Unit 2

Source Outlet

Date	Hour	On-Line Minutes	O2		NOx		SO2				CO			Carbon Feed		FF Temp (deg F)		Steam KLbs/Hr			
			Out Vol % Dry	Status	Outlet ppm 7%O2	Status	Outlet ppm 7%O2	Status	Inlet ppm 7%O2	Status	Removal	Status	Outlet ppm 7%O2	Status	4 Hr Block	Status	Lbs/Hr Avg.	8 Hr Block	1 Hr Avg.	4 Hr Block	1 Hr Avg.
10/4/2025	0	60	9.8		138		0		77		100		4			13		315		165.2	
10/4/2025	1	60	9.6		133		4		84		95		6			13		315		169.5	
10/4/2025	2	60	9.7		138		0		67		100		5			13		315		167.9	
10/4/2025	3	60	9.7		133		0		68		100		4	5		13		315	315	168.3	167.7
10/4/2025	4	60	9.8		139		0		74		100		4			13		315		168.9	
10/4/2025	5	60	9.7		137		1		78		99		3			13		315		168.1	
10/4/2025	6	60	10.1		139		9		103		91		4			13		315		164.1	
10/4/2025	7	60	9.8		138		3		94		97		6	4		13	13	315	315	168.5	167.4
10/4/2025	8	60	9.7		136		1		83		99		6			13		315		169.2	
10/4/2025	9	60	9.7		139		0		70		100		4			13		315		168.4	
10/4/2025	10	60	9.8		137		2		93		97		8			13		315		170.2	
10/4/2025	11	60	10.1		136		1		79		99		3	5		13		315	315	164.6	168.1
10/4/2025	12	60	9.8		138		9		101		91		5			13		315		168.1	
10/4/2025	13	60	9.6		135		12		117		90		7			13		315		169.1	
10/4/2025	14	60	9.5		134		18		136		87		16			14		314		169.4	
10/4/2025	15	60	9.3		131		4		89		95		8	9		13	13	315	315	166.0	168.1
10/4/2025	16	60	9.3		138		0		77		100		2			14		315		167.1	
10/4/2025	17	60	9.4		137		1		78		98		3			13		315		166.6	
10/4/2025	18	60	9.5		138		0		65		100		3			14		315		164.5	
10/4/2025	19	60	9.4		136		0		77		100		5	3		13		315	315	166.5	166.2
10/4/2025	20	60	9.5		139		0		72		100		3			13		315		165.6	
10/4/2025	21	60	9.5		138		0		84		100		3			13		315		166.1	
10/4/2025	22	60	9.6		139		2		98		98		3			13		315		166.8	
10/4/2025	23	60	9.7		138		5		95		95		2	3		13	13	315	315	165.7	166.1

Average: Geometric Mean Average:	137	1	99	OR	see above	see above	see above	
Limit:	≤ 150 24-HR Block Avg.	≤ 29 24-HR Geometric Mean	≥ 80% Removal Efficiency		≤ 69 ppmc 4-HR Block Average	≥ 12 lb/hr 8-HR. Block Average	≤ 345 °F 4-HR Block Average	≤ 173 klb/hr 4-HR Block Average

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WHEELABRATOR NORTH ANDOVER A WIN-WASTE INNOVATIONS COMPANY OPACITY REPORT



Date 04-Oct-2025

Plant Wheelabrator North Andover
Unit Unit 1
Source Outlet

Opacity is a measure of how much soot or smoke may be contained in stack emissions. The more smoke that is contained in the emissions the higher the level of opacity. Continuous opacity monitors located after all of the air pollution control equipment measure the opacity of the emissions from each boiler. Typically the human eye can not detect or see smoke that is less than 5% opacity. You won't see smoke from a modern trash-to-energy plant although in colder weather you will see water vapor condensation, similar to seeing your breath on a cold day. This is not considered opacity. We have a permit limit established by the Massachusetts Department of Environmental Protection of 10% opacity averaged every six (6) minutes.

Limit 10 %

Time (hr)	1-6 min	7-12 min	13-18 min	19-24 min	25-30 min	31-36 min	37-42 min	43-48 min	49-54 min	55-60 min	Average
0	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1	1	1	1	1
3	1	1	1	1	1	1	1	1	1	1	1
4	1	1	1	1	1	1	1	1	1	1	1
5	1	1	1	1	1	1	1	1	1	1	1
6	2	IC	5	IC	1	1	1	1	1	1	1
7	1	1	1	1	1	1	1	1	1	1	1
8	1	1	1	1	1	1	1	1	1	1	1
9	1	1	1	1	1	1	1	1	1	1	1
10	1	1	1	1	1	1	1	1	1	1	1
11	1	1	1	1	1	1	1	1	1	1	1
12	1	1	1	1	1	1	1	1	1	1	1
13	1	1	1	1	1	1	1	1	1	1	1
14	1	1	1	1	1	1	1	1	1	1	1
15	1	1	1	1	1	1	1	1	1	1	1
16	1	1	1	1	1	1	1	1	1	1	1
17	1	1	1	1	1	1	1	1	1	1	1
18	1	1	1	1	1	1	1	1	1	1	1
19	1	1	1	1	1	1	1	1	1	1	1
20	1	1	1	1	1	1	1	1	1	1	1
21	1	1	1	1	1	1	1	1	1	1	1
22	1	1	1	1	1	1	1	1	1	1	1
23	1	1	1	1	1	1	1	1	1	1	1

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 B - Bad M - Maintenance P - Purge E - Excluded * - Shutdown



WHEELABRATOR NORTH ANDOVER A WIN-WASTE INNOVATIONS COMPANY OPACITY REPORT



Date 04-Oct-2025

Plant Wheelabrator North Andover
Unit Unit 2
Source Outlet

Opacity is a measure of how much soot or smoke may be contained in stack emissions. The more smoke that is contained in the emissions the higher the level of opacity. Continuous opacity monitors located after all of the air pollution control equipment measure the opacity of the emissions from each boiler. Typically the human eye can not detect or see smoke that is less than 5% opacity. You won't see smoke from a modern trash-to-energy plant although in colder weather you will see water vapor condensation, similar to seeing your breath on a cold day. This is not considered opacity. We have a permit limit established by the Massachusetts Department of Environmental Protection of 10% opacity averaged every six (6) minutes.

Limit 10 %

Time (hr)	1-6 min	7-12 min	13-18 min	19-24 min	25-30 min	31-36 min	37-42 min	43-48 min	49-54 min	55-60 min	Average
0	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1	1	1	1	1
3	1	1	1	1	1	1	1	1	1	1	1
4	1	1	1	1	1	1	1	1	1	1	1
5	1	1	1	1	1	1	1	1	1	1	1
6	2	IC	5	IC	1	1	1	1	1	1	2
7	1	1	1	1	1	1	1	1	1	1	1
8	1	1	1	1	1	1	1	1	1	1	1
9	1	1	1	1	1	1	1	1	1	1	1
10	1	1	1	1	1	1	1	1	1	1	1
11	1	1	1	1	1	1	1	1	1	1	1
12	1	1	1	1	1	1	1	1	1	1	1
13	1	1	1	1	1	1	1	1	1	1	1
14	1	1	1	1	1	1	1	1	1	1	1
15	1	1	1	1	1	1	1	1	1	1	1
16	1	1	1	1	1	1	1	1	1	1	1
17	1	1	1	1	1	1	1	1	1	1	1
18	1	1	1	1	1	1	1	1	1	1	1
19	1	1	1	1	1	1	1	1	1	1	1
20	1	1	1	1	1	1	1	1	1	1	1
21	1	1	1	1	1	1	1	1	1	1	1
22	1	1	1	1	1	1	1	1	1	1	1
23	1	1	1	1	1	1	1	1	1	1	1

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